Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims

in the application:

Listing of Claims:

1. (Original) A modified pro- α chain comprising a triple helical

forming domain linked to at least one N-terminal domain characterised in that

the N-terminal domain contains a polypeptide sequence from at least part of a

laminin glycoprotein or at least part of a secretory leukocyte protease inhibitor or

functional derivatives thereof.

2. (Original) A modified pro- α chain as claimed in claim 1 wherein

the triple helical forming domain is from a fibrillar forming pro- α chain.

3. (Original) A modified pro- α chain as claimed in claim 2 wherein

the triple helical forming domain is from a type I, II, III, V or XI pro- α chain.

4. (Original) A modified pro- α chain as claimed in claim 3 wherein

the triple helical forming domain is from a pro- α (III) chain.

5. (Previously Presented) A modified pro- α chain as claimed in

claim 1 wherein the N- terminal domain comprises a part of a laminin molecule.

6. (Original) A modified pro- α chain as claimed in claim 5 wherein

the N-terminal domain is derived from the globular domains of an α -chain of a

laminin molecule.

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- 7. (Original) A modified pro- α chain as claimed in claim 6 wherein the N-terminal domain comprises the amino acid sequence for at least the G3 globular domain of the α -chain.
- 8. (Original) A modified pro- α chain as claimed in claim 6 wherein the N-terminal comprises the amino acid sequence for the G1 to G3 domains.
- 9. (Previously Presented) A modified pro- α chain as claimed in claim 5 wherein N- terminal sequence of the pro- α chain is replaced with at least part of the amino acid sequence of the globular chain of Laminin-5.
- 10. (Currently Amended) A modified pro- α chain as claimed in claim 1, the modified pro- α chain further comprising a procollagen N-propertide sequence, wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.
- 11. (Withdrawn) A modified pro- α chain as claimed in claim 1 wherein the entire sequence of secretory leukocyte protease inhibitor is attached to the N-terminal domain.
- 12. (Currently Amended) A modified pro- α chain as claimed in claim 1, the modified pro- α chain further comprising a procollagen N-propeptide sequence, wherein a N- proteinase cleavage site associated with the N-terminal propeptide domain is modified such as to alter the domain's susceptibility to cleavage.
- 13. (Original) A modified pro- α chain as claimed in claim 12 wherein the N-proteinase cleavage site is modified such that the domain may not be cleaved.

- 14. (Original) A modified pro- α chain as claimed in claim 13 wherein a region between the helical forming domain and the N-propeptide forming domain of the pro- α chain is modified to confer resistance to N-proteinases.
- 15. (Original) A modified pro- α chain as claimed in claim 14 wherein Pro-Gln in the region is altered to Leu-Pro.
- 16. (Original) A modified pro- α chain as claimed in claim 8 wherein the N-terminal domain contains the amino acids of SEQ ID NO:10.
- 17. (Original) A modified pro- α chain as claimed in claim 7 wherein the N-terminal domain contains the amino acids of SEQ ID NO:14.
- 18. (Withdrawn) A modified pro- α chain as claimed in claim 11 wherein the N-terminal domain contains the amino acids of SEQ ID NO:27.
- 19. (Previously Presented) A DNA molecule encoding modified pro- α chains as defined by claim 1.
- 20. (Original) A DNA molecule encoding modified pro- α chains as claimed in claim 19 characterised in that the molecule includes the bases of SEQ ID NO:9.
- 21. (Original) A DNA molecule encoding modified pro- α chains as claimed in claim 19 characterised in that the molecule includes the bases of SEQ ID NO:13.

- 22. (Withdrawn) A DNA molecule encoding modified pro- α chains as claimed in claim 19 characterised in that the molecule includes the bases of SEQ ID NO:26.
- 23. (Previously Presented) A procollagen molecule comprising a trimer of pro- α chains characterised in that at least one of the pro- α chains is a modified pro- α chain as defined by claim 1.
- 24. (Original) A procollagen molecule as claimed in claim 23 wherein the C-terminal domain of the molecule is removed.
- 25. (Original) A collagen polymer comprising collagen monomers wherein at least some of the collagen monomers contained therein have retained N-propeptides characterised in that at least some of the retained N-propeptides contain a polypeptide sequence from at least part of a laminin glycoprotein or at least part of a secretory leukocyte protease inhibitor or functional derivatives thereof.
- 26. (Currently Amended) A collagen polymer as claimed in claim 25 wherein the collagen monomers having retained propeptide domains are derived from procollagen molecules, as defined by claim 23 the procollagen molecules comprising a trimer of pro- α chains characterised in that at least one of the pro- α chains is a modified pro- α chain comprising a triple helical forming domain linked to at least one N-terminal domain characterised in that the N-terminal domain contains a polypeptide sequence from at least part of a laminin glycoprotein or at least part of a secretory leukocyte protease inhibitor or functional derivatives thereof.

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27. (Previously Presented) A collagen matrix comprising collagen monomers having modified propertide domains derived from procollagen molecules as defined by claim 23.

- 28. (Previously Presented) A dressing comprising collagen polymers as defined by claim 26.
- 29. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 1 for the treatment of medical conditions.
- 30. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 1 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.
- 31. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 1.
- 32. (Withdrawn) An artificial skin/tissue comprising a collagen matrix according to claim 27.
- 33. (Withdrawn) A body implant comprising a collagen matrix according to claim 27.

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34. (Currently Amended) The use of a the collagen matrix, artificial skin/tissue or a body implant according to claim 27for the treatment of medical conditions.

- 35. (Withdrawn) A delivery system for use in gene therapy technique, said delivery system comprising a DNA molecule according to claim 19 which is capable or being transcribed to lead the expression of the modified pro- α chain at a wound site or site of fibrosis.
- 36. (Withdrawn) The use of a delivery system as defined in claim 35 in the manufacture of a medicament for treating wounds or fibrotic disorders.
- 37. (Withdrawn) A method of treating a wound or fibrotic condition comprising administering to a patient in need of treatment a therapeutic dose of a delivery system as defined in claim 35.
- 38. (Previously Presented) A modified pro- α chain as claimed in claim 2 wherein the N- terminal domain comprises a part of a laminin molecule.
- 39. (Previously Presented) A modified pro- α chain as claimed in claim 3 wherein the N- terminal domain comprises a part of a laminin molecule.
- 40. (Previously Presented) A modified pro- α chain as claimed in claim 4 wherein the N- terminal domain comprises a part of a laminin molecule.
- 41. (Previously Presented) A modified pro- α chain as claimed in claim 6 wherein N- terminal sequence of the pro- α chain is replaced with at least part of the amino acid sequence of the globular chain of Laminin-5.

- 42. (Previously Presented) A modified pro- α chain as claimed in claim 7 wherein N- terminal sequence of the pro- α chain is replaced with at least part of the amino acid sequence of the globular chain of Laminin-5.
- 43. (Previously Presented) A modified pro- α chain as claimed in claim 8 wherein N- terminal sequence of the pro- α chain is replaced with at least part of the amino acid sequence of the globular chain of Laminin-5.
- 44. (Previously Presented) A modified pro- α chain as claimed in claim 4 wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.
- 45. (Previously Presented) A modified pro- α chain as claimed in claim 5 wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.
- 46. (Previously Presented) A modified pro- α chain as claimed in claim 7 wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.
- 47. (Previously Presented) A modified pro- α chain as claimed in claim 38 wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.
- 48. (Previously Presented) modified pro- α chain as claimed in claim 39 wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.

- 49. (Previously Presented) modified pro- α chain as claimed in claim 40 wherein the procollagen N-propertide sequence is replaced prior to N100 with the sequence for the laminin glycoprotein.
- 50. (Previously Presented) A modified pro- α chain as claimed in claim 4 wherein a N- proteinase cleavage site associated with the N-terminal propertide domain is modified such as to alter the domain's susceptibility to cleavage.
- 51. (Previously Presented) A modified pro- α chain as claimed in claim 40 wherein a N- proteinase cleavage site associated with the N-terminal propertide domain is modified such as to alter the domain's susceptibility to cleavage.
- 52. (Previously Presented) A modified pro- α chain as claimed in claim 42 wherein a N- proteinase cleavage site associated with the N-terminal propertide domain is modified such as to alter the domain's susceptibility to cleavage.
- 53. (Previously Presented) A modified pro- α chain as claimed in claim 10 wherein a N- proteinase cleavage site associated with the N-terminal propertide domain is modified such as to alter the domain's susceptibility to cleavage.
- 54. (Withdrawn) A modified pro- α chain as claimed in claim 11 wherein a N- proteinase cleavage site associated with the N-terminal propertide domain is modified such as to alter the domain's susceptibility to cleavage.

- 55. (Previously Presented) A DNA molecule encoding modified pro- α chains as defined by claim 4.
- 56. (Previously Presented) A DNA molecule encoding modified pro- α chains as defined by claim 42.
- 57. (Previously Presented) A DNA molecule encoding modified pro- α chains as defined by claim 15.
- 58. (Previously Presented) A DNA molecule encoding modified pro- α chains wherein the N-terminal domain contains the amino acids of one of SEQ ID NO:10, SEQ ID NO:14, SEQ ID NO:27.
- 59. (Previously Presented) A procollagen molecule comprising a trimer of pro- α chains characterised in that at least one of the pro- α chains is a modified pro- α chain as defined by claim 4.
- 60. (Previously Presented) A procollagen molecule comprising a trimer of pro- α chains characterised in that at least one of the pro- α chains is a modified pro- α chain as defined by claim 42.
- 61. (Previously Presented) A procollagen molecule comprising a trimer of pro- α chains characterised in that at least one of the pro- α chains is a modified pro- α chain as defined by claim 15.
- 62. (Previously Presented) A procollagen molecule comprising a trimer of pro- α chains characterised in that at least one of the pro- α chains is a modified pro- α chain as defined by claim 58.

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63. (Currently Amended) A procollagen molecule comprising a trimer of pro- α chains wherein the molecule includes one of the bases of SEQ ID NO:9, or SEQ ID NO:13, SEQ ID NO:26.

- 64. (Previously Presented) A collagen polymer as claimed in claim 25 wherein the collagen monomers having retained propertide domains are derived from procollagen molecules as defined by claim 24.
- 65. (Previously Presented) A collagen matrix comprising collagen monomers having modified propertide domains derived from procollagen molecules as defined by claim 24.
- 66. (Previously Presented) A dressing comprising a collagen matrix as defined by claim 27.
- 67. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 4 for the treatment of medical conditions.
- 68. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 42 for the treatment of medical conditions.
- 69. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 15 for the treatment of medical conditions.

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- 70. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 58 for the treatment of medical conditions.
- 71. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 63 for the treatment of medical conditions.
- 72. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 64 for the treatment of medical conditions.
- 73. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 65 for the treatment of medical conditions.
- 74. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 66 for the treatment of medical conditions.
- 75. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 26 for the treatment of medical conditions.
- 76. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 27 for the treatment of medical conditions.

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77. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 28 for the treatment of medical conditions.

78. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 4 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

79. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 42 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

80. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 15 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

- 81. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 58 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.
- 82. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 26 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

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83. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 27 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

84. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 28 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

85. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 63 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

86. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 64 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

- 87. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 65 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.
- 88. (Currently Amended) The use of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 66 for the manufacture of a medicament for use in the treatment of wounds or fibrotic disorders.

- 89. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 4.
- 90. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 42.
- 91. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 15.
- 92. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 58.
- 93. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 26.
- 94. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a

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therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 27.

- 95. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 28.
- 96. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 63.
- 97. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 64.
- 98. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 65.
- 99. (Currently Amended) A method of treating a wound or fibrotic disorder comprising administering to a subject in need of such treatment a therapeutically effective amount of a modified pro- α chain, procollagen molecule, polymer, matrix or dressing according to claim 66.

Appl. No. 10/554,068

Amdt. dated June 11, 2007

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100. (Withdrawn) A delivery system for use in gene therapy technique, said delivery system comprising a DNA molecule according to claim 20 which is capable or being transcribed to lead the expression of the modified pro- α chain at a wound site or site of fibrosis.

101. (Withdrawn) A delivery system for use in gene therapy technique, said delivery system comprising a DNA molecule according to claim 21 which is capable or being transcribed to lead the expression of the modified pro- α chain at a wound site or site of fibrosis.

102. (Withdrawn) A delivery system for use in gene therapy technique, said delivery system comprising a DNA molecule according to claim 22 which is capable or being transcribed to lead the expression of the modified pro- α chain at a wound site or site of fibrosis.

- 103. (Withdrawn) The use of a collagen matrix, artificial skin/tissue or a body implant according to claim 32, for the treatment of medical conditions.
- 104. (Withdrawn) The use of a collagen matrix, artificial skin/tissue or a body implant according to claim 33, for the treatment of medical conditions.